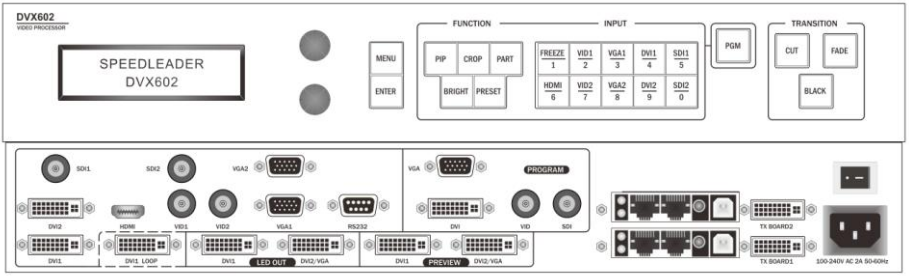
Speed Leader

User Manual



DVX602

LED Video Processor

Contents

About This Manual

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The product specifications and information mentioned in this Manual are for reference only and are subject to change without notice. Unless specifically agreed, this Manual is for guidance only. No statement or information in this Manual constitutes guarantee in any form.

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VESA is a trademark of Video Electronics Standards Association.
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Safety Precautions

- This device must be connected to a ground wire.
- This device must use voltage with rated power. Ensure the error of the input voltage is ±10%.
- Do not connect the AC power cable to an AC power cable that may cause excessive noise.
- Use this device in an environment with an ambient temperature between -10℃ and 40℃ and a relative humidity of 90% or below.
- Do not use this device in certain special circumstances, such as places near heat sources, which may cause damage of the device due to overheat. Use this device in a place with good ventilation, and prevent the vent of the device from being blocked.
- Do not expose this device to any place where accidental collision or vibration may occur. If it will be used in a place with vibration, reinforce the device.
- Do not place foreign objects, e.g. water or metal into the device, which will cause damage to the device and result in a fire.
- In case any irregular or abnormal phenomenon is found, switch off the power immediately, disconnect the AC power cable, and handle the phenomenon by referring to "Troubleshooting Guidance".
- In case of any damage, do not disassemble the device. Contact the maintenance department of Speed Leader.

Accessories

Item	Name	Qty
	DVX602	1
	AC power cable	1
	User manual	1
	Qualified Certificate	1
	Warranty Card	1
	M3*6 round head screw	2
	Φ5*18 copper cylinder	2

Table 4-1 Package content

*** Accessories can be defined based on customer requirements.**

Product Models

Model	Description
DVX602	Basic
DVX602S	Basic + Expanding 1x3G - SDI input
DVX602SD	Basic + Expanding 1x3G - SDI input, Expanding Program output DVI/VGA
DVX602SF	Basic + Expanding 1x3G - SDI input, Expanding Program output SDI/DVI/VGA/VID
DVX602F	Basic + Program output SDI/DVI/VGA/VID
DVX602D	Basic + Expanding Program output DVI/VGA
DVX602T	Basic + Expanding 2x3G - SDI input
DVX602TD	Basic + Expanding 2x3G - SDI input, Expanding Program output DVI/VGA
DVX602TF	Basic + Expanding 2x3G - SDI input, Expanding Program output SDI/DVI/VGA/VID

Table 4-2 Product models

Overview

DVX602 series video processor is a high-performance LED video processor that uses the 30-bit digital signal processing technology, advanced deinterlacing signal processing and real Seamless Switch technology for professional demonstration. It supports 1080p and 1920x1200@60Hz full HD resolution output (up to 2304x1152@60Hz). Point-to-point pixel adjustment can be realized. It can receive several types of video input formats, such as 3G-SDI, HDMI, DVI, VGA, and SD video.

Splicing LED Video Processor

DVX602 Series Video Processor supports signal interconnection. Through simple splicing setup, ultra high resolution displaying can be realized without an expensive splicing controller.

Seamless Switch

The seamless switch between single-window and dual-window function and fade-in fade-out effects are provided to enhance and present demonstration pictures of professional quality.

Internal Test Patterns for Calibration and Setup

A number of test patterns are provided, including square, color bar, gray scale, alternate pixel, white field, full red, full green, full blue, etc.

Picture-in-picture Any Size Any Position

The position, size, etc. of picture-in-picture are adjustable and can be controlled arbitrarily.

Broadcast-Quality Multi-Stage Scaling Engine

DVX602 Series Video Processor uses high performance 30-bit Faroudja® DCDI multi-stage scaling engine to convert the resolution of pictures to a lower or higher one for signals of various definitions, as well as the professional ACC and ACM video processing engine to present you with a completely new visual enjoyment.

Input Interfaces

2 BNC inputs, 2 VGA inputs, 2 DVI inputs, 1 HDMI input, 1 RS232 communication port, 2 3G-SDI inputs (optional).

Output Interfaces

DVX602 provides three independent video outputs for preview, program, and LED.

Convenient Keys on the Panel

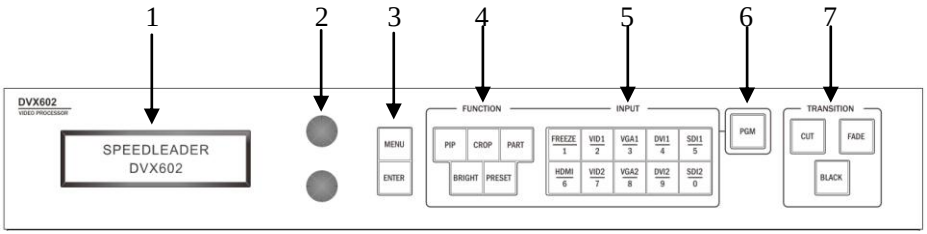
An intuitive LCD interface and the clear key indicators simplify the installation and control of the system.

Preset Scenarios

DVX602 supports multiple scenarios to be saved and invoked, which is easy to realize.

Panel

Front Panel



SN	Name	Operation
1	LCD display	Show menu and current information.
2	Knob (up)	Select up/down/left/right menus and adjust the parameters. Press this knob for confirmation.
	Knob (down)	Select up/down and adjust the parameters. Press this knob for confirmation.
3	MENU	Enter the main menu or return to the previous menu.
	ENTER	Confirm an operation or switch between submenus. It can be used in combination with other buttons for specific function as well.
4	PIP	Picture-in-picture button. Press and hold this button for one second to enter PIP parameters setting menu. Press the **ENTER** button to switch the current operation interface.
	CROP	Cropping button. Press and hold this button for one second to enter CROP parameters setting menu. Press the **ENTER** button to switch the current operation interface.

	PART	Full or Part shortcut key. Press and hold this button for one second to enter window parameters setting menu. Press the **ENTER** button to switch the current operation interface.
	BRIGHT	Adjust image brightness and contrast
	PRESET	Scenario switch button. Press the **ENTER** button to switch the current operation mode.
5	FREEZE	Freeze or unfreeze a window. In scenario mode, this operation is realized by the number key 1.
	HDMI	Select HDMI channel. In scenario mode, this operation is realized by the number key 6.
	VID1	Select composite video 1 channel. In scenario mode, this operation is realized by the number key 2.
	VID2	Select composite video 2 channel. In scenario mode, this operation is realized by the number key 7.
	VGA1	Select VGA 1 channel. In scenario mode, this operation is realized by the number key 3.
	VGA2	Select VGA 2 channel. In scenario mode, this operation is realized by the number key 8.
	DVI1	Select DVI 1 channel. In scenario mode, this operation is realized by the number key 4.
	DVI2	Select DVI 2 channel. In scenario mode, this operation is realized by the number key 9.
	SDI1	Select SDI 1 channel. In scenario mode, this operation is realized by the number key 5.
	SDI2	Select SDI 2 channel. In scenario mode, this operation is realized by the number key 0.
6	PGM	Preview and program switch
7	CUT	Immediately switch
	FADE	fade-in and fade-out
	BLACK	Program/LED output channel black screen

Table 7-1 Descriptions of front panel

Button Combinations

ENTER + **CROP**:

Restore the crop parameters for selected preview/program output back to default values. Reset the crop parameters of the selected preview/program to default.

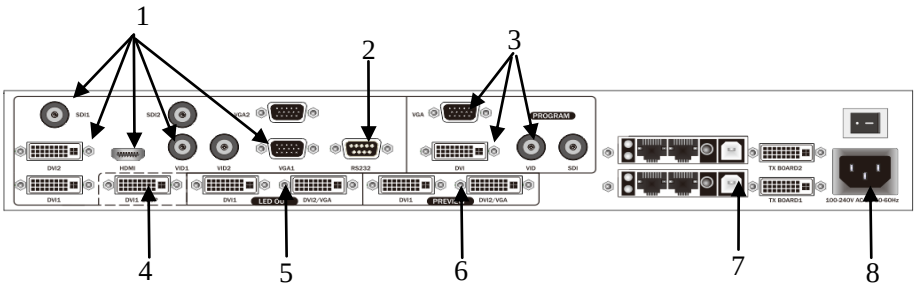
ENTER + **PART**:

Restore the window parameters for selected preview/program output back to default values. Reset the window parameters of the selected preview/program to default.

ENTER + **BRIGHT**:

Restore the image brightness/contrast parameters for selected preview/program output back to default values. Reset the brightness/contrast of the selected preview/program to default.

Rear Panel

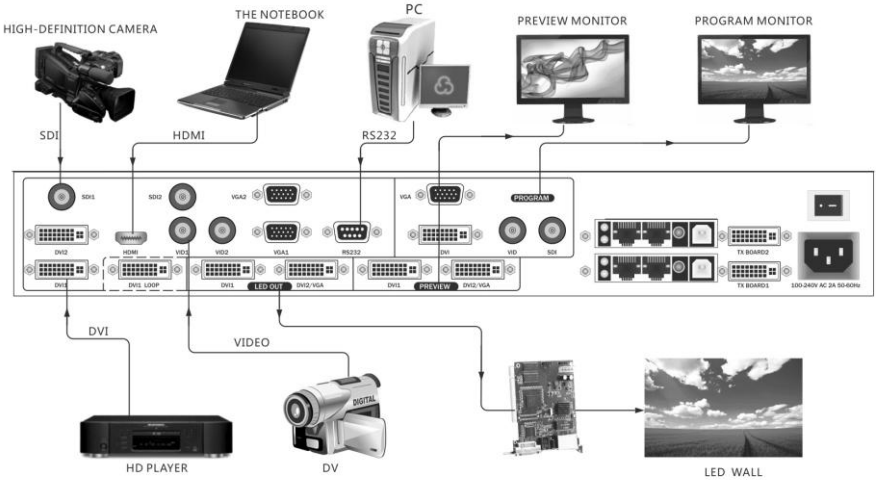


SN	Port	
1	Video input	DVX602 can receive 2* VGA, 2*DVI, 1*HDMI, 2* VID and 2*SDI (optional) signal source simultaneously.
2	COM port	One RS-232 port
3	Program output	Expanding program output DVI/VGA and SDI/DVI/VGA/VID
4	DVI loop-out port	One DVI 1 loop-out port
5	LED output	Two DVI-I output ports
6	Preview output	Two DVI-I output ports
7	Sending card interface	Reserved for installing a sending card
8	AC power socket	100~240VAC, 50Hz/60Hz
	Power switch	"**I**" indicates power-on; "**O**" indicates power-off.

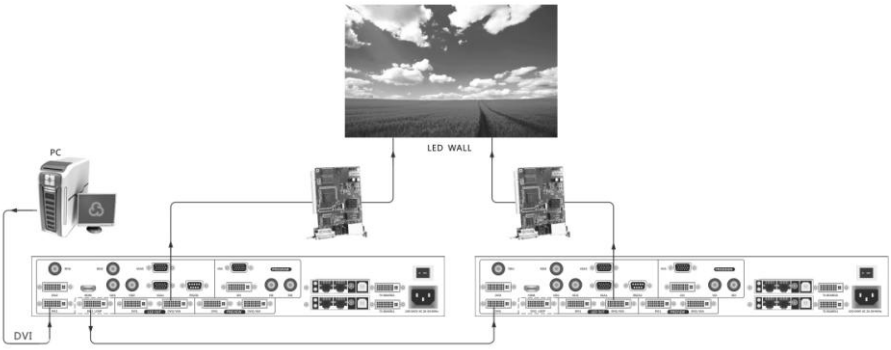
Table 7-2 Description of rear panel

Application Scenarios

Application 1



Application 2



Menu Introduction

Default Menu

DVX602 provides a convenient menu system. Figure 9-1 shows the default menu that appears after DVX602 is powered on. The user can observe the current preview signal source, program signal source and other important information via the default menu.

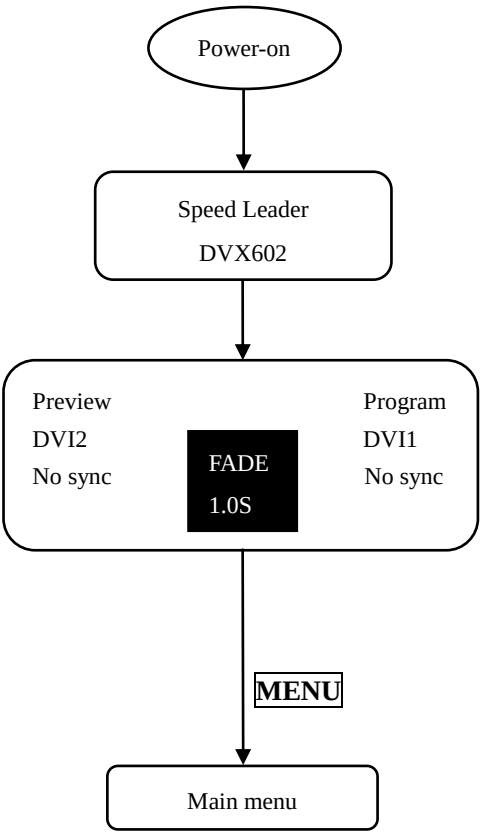


Figure 9-1 Menu Flowchart

Main Menu

Under the default menu, press the **MENU** button to enter the main menu of DVX602. Figure 9-2 is the first-level menu of the main menu system displayed on LCD and the user can enter the next menu quickly by the rotary knob.

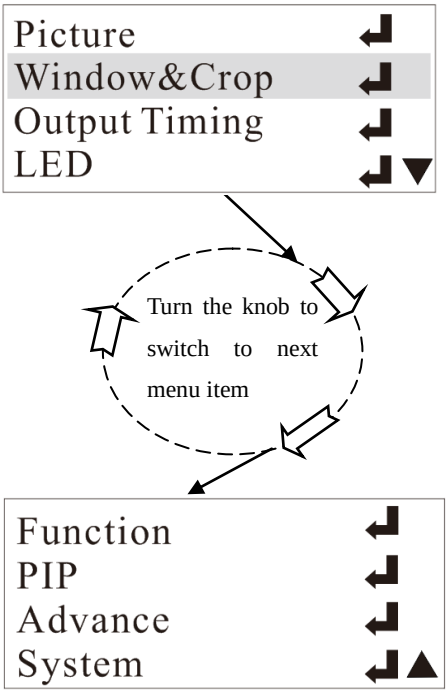


Figure 9-2 Main menu

The main menu is composed of 8 submenus and they are shown in two pages. Turn the knob to select a menu item and press **ENTER** or press the knob to enter the submenu. Press **ENTER** again to return to the main menu. Press **MENU** return to the previous menu.

※Note: Under the main menu, both the knobs have the same function (switching to a preceding or next menu item). When you switch to the last menu item, continuing to turn the knob will not go back to the first menu item.

Image Setting

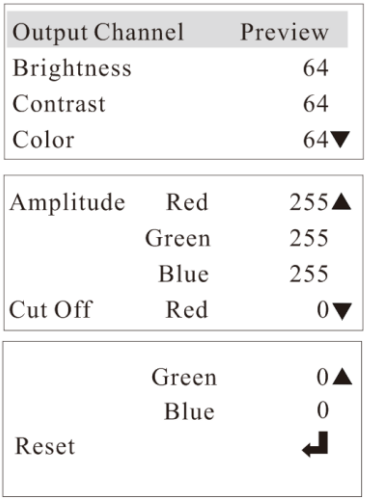


Figure 10-1 Image setting submenu

Item	Operation
Output Channel	◀▶Knob adjustment: Preview/Program/LED/PIP
Brightness	◀▶Knob adjustment: 0~64~127
Contrast	◀▶Knob adjustment: 0~64~127
Color	◀▶Knob adjustment: 0~64~127
Amplitude Red	◀▶Knob adjustment: 0~255
Green	◀▶Knob adjustment: 0~255
Blue	◀▶Knob adjustment: 0~255
CutOff Red	◀▶Knob adjustment: 0~31
Green	◀▶Knob adjustment: 0~31
Blue	◀▶Knob adjustment: 0~31
Reset	Press **ENTER** or press the knob to enter the Resetting menu and restore the image parameters for the selected output channel back to default values.

Table 10-1 Parameters of the image setting submenu

Note: Image brightness, contrast, color saturation, and color can be saved separately in the parameters of the signal source which the output selected. The parameters of each input signal source is saved without interference.

For example, brightness and contrast for preview output VGA1 are 78 and 87 respectively; brightness and contrast for preview output VGA2 are 65 and 68 respectively; brightness and contrast for LED output VGA1 are 69 and 70 respectively; brightness and contrast for LED output VGA2 are 72 and 83 respectively.

Image Setting Shortcut

To set image parameters in a convenient way, press **BRIGHT** to enter the shortcut menu.

Figure 10-2 Image setting shortcut menu

Figure 10-2 shows the brightness and contrast for the selected preview output channel. Turn the knob to change the values. Press **PGM** to switch between preview outputs and program outputs.

Press **ENTER** + **BRIGHT** to reset the image brightness/contrast parameters for selected preview/program channel back to default values.

Window and Crop

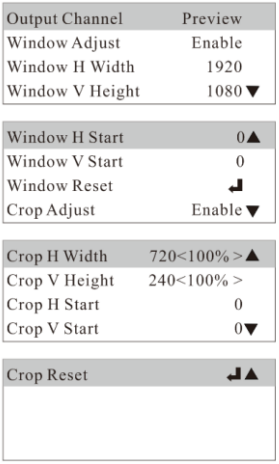


Figure 11-1 Window and crop submenu

Item	Operation
Output Channel	◀▶Knob adjustment: Preview/Program/LED/PIP
Window Adjust	◀▶Knob adjustment: Enable/Disable
Window H Width	◀▶Knob adjustment
Window V Height	◀▶Knob adjustment
Window H Start	◀▶Knob adjustment
Window V Start	◀▶Knob adjustment
Window Reset	Press **ENTER** or press the knob to enter the Resetting menu and reset the window parameters for the selected output channel back to default values.
Crop Adjust	◀▶Knob adjustment: Enable/Disable
Crop H Width	◀▶Knob adjustment
Crop V Height	◀▶Knob adjustment
Crop Reset	Press **ENTER** or press the knob to enter the Resetting menu and reset the crop parameters for the selected output channel back to default values.

Table 11-1 Parameters of the window and crop submenu

Note: Window parameters and crop parameters can be saved separately in the parameters of the signal source which the output selected. The parameters of each input signal source is saved without interference.

Window Setting Shortcut

To set window parameters in a convenient way, press **PART** – the partial window switch. The switch is turned on when the button is lighted up. Press and hold **PART** for one second to enter the shortcut menu.

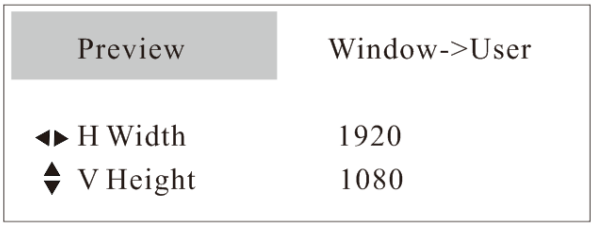


Figure 11-2 Window shortcut menu

Figure 11-2 shows the window parameters of the selected signal under the preview output channel. Turn the knob to change window width and height. Press **ENTER** to switch between window size and start position; press **PGM** to switch between preview outputs and program outputs.

Press **ENTER** + **PART** to reset the window parameters of the signal which the preview/program selected.

Crop

This function is to display the cropped part of an image. Users can change crop size and position.

Crop Setting Shortcut

To set crop parameters in a convenient way, press **CORP** – the crop window switch. The switch is turned on when the button is lighted up. Press and hold **CORP** for one second to enter the shortcut menu.

Figure 11-3 Crop shortcut

Figure 11-3 shows the crop parameters of the selected signal under the preview output channel. Turn the knob to change width and height of an image part to be cropped. Press **ENTER** to switch between crop size and start position; press **PGM** to switch between preview outputs and program outputs.

Press **ENTER** + **CROP** to reset the crop parameters of the signal source which the preview /program selected.

Output Resolution

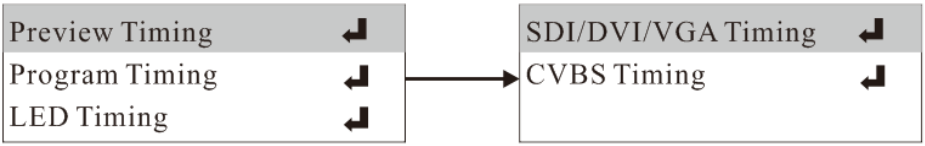


Figure 12-1 Output resolution

Item	Operation	
Preview Timing	Press **ENTER** to enter the resolution menu ▲▼ Turn the knob and press **ENTER** or press the knob	
Program Timing	SDI/DVI/VGA Timing	Press **ENTER** to enter the resolution menu ▲▼ Turn the knob and press **ENTER** or press the knob
	CVBS Timing	Press **ENTER** to enter the resolution menu ▲▼ Turn the knob and press **ENTER** or press the knob
LED Timing	Press **ENTER** to enter the resolution menu ▲▼ Turn the knob and press **ENTER** or press the knob	

Table 12-1 Parameters of the output resolution submenu

LED

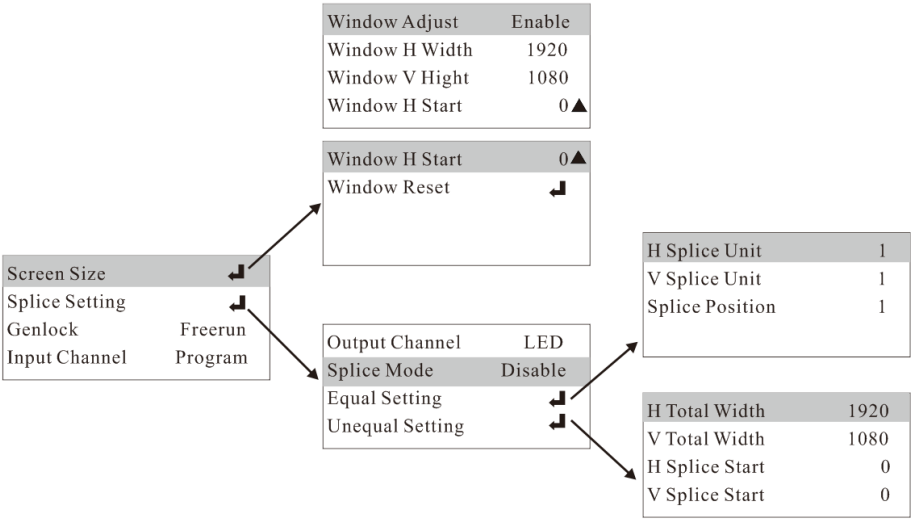


Figure 13-1 LED submenu

Item	Operation		
Screen Size	Window Adjust	◀▶Knob adjustment : Enable/Disable	
	Window H Width	◀▶Turn the knob	
	Window V Height	◀▶Turn the knob	
	Window H Start	◀▶Turn the knob	
	Window V Start	◀▶Turn the knob	
	Window Reset	Press **ENTER** or press the knob to enter the Resetting menu and restore the spliced window parameters to default values.	
Splicing Setting	Output Channel	LED	
	Splice Mode	◀▶Turn the knob: Disable/ Equal / Unequal	
	Equal Splice Setting	H Splice Unit	◀▶Turn the knob: 1~10
		V Splice Unit	◀▶Turn the knob: 1~10
		Splice Position	◀▶Turn the knob: 1~100
	Unequal Splice Setting	H Total Width	◀▶Turn the knob
		V Total Height	◀▶Turn the knob
		H Splice Start	◀▶Turn the knob
		V Splice Start	◀▶Turn the knob
Genlock	◀▶Turn the knob: Freerun/V Lock		
Input Channel	◀▶Turn the knob: Program/DVI 1/DVI 2		

Table 13-1 Parameters of the LED submenu

Function Setting

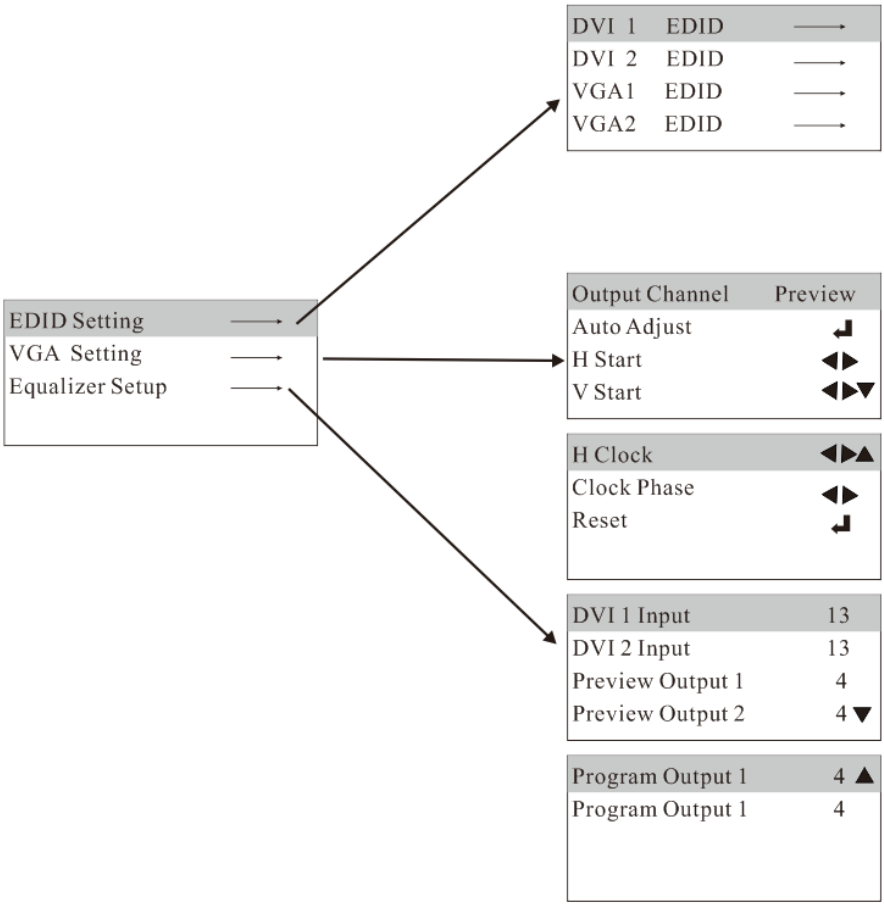


Figure 14-1 Function setting submenu

Overview

DVX602 provides EDID definable functions for users to set required resolution for an output device, such as a PC or other image output device.

Setting EDID

Enter the EDID setting menu and select a required input channel. Press **ENTER** or press the knob to enter the EDID menu. Select required parameters and press **ENTER** or press the knob to change parameters.

Item	Operation	
EDID Setting	DVI1 EDID	Press **ENTER** to enter the resolution menu ▲▼ Turn the knob and press **ENTER** or press the knob
	DVI2 EDID	
	VGA1 EDID	Press **ENTER** to enter the resolution menu ▲▼ Turn the knob and press **ENTER** or press the knob
	VGA2 EDID	
VGA Setting	Output Channel	◄►Turn the knob: preview/program
	Auto Adjust	Press **ENTER** or press the knob
	H Start	◄►Turn the knob
	V Start	◄►Turn the knob
	H Clock	◄►Turn the knob
	Clock Phase	◄►Turn the knob
	Reset	Press **ENTER** or press the knob to enter the Resetting menu and reset the VGA parameters for the selected output channel back to default values.

Equalizer Setup	DVI1 input	◀▶Turn the knob: 0~63
	DVI2 Input	◀▶Turn the knob: 0~63
	Preview Output 1	◀▶Turn the knob: 0~47
	Preview Output 2	◀▶Turn the knob: 0~47
	Program Output 1	◀▶Turn the knob: 0~47
	Program Output 2	◀▶Turn the knob: 0~47

Table 14-1 Parameters of the function setting submenu

PIP

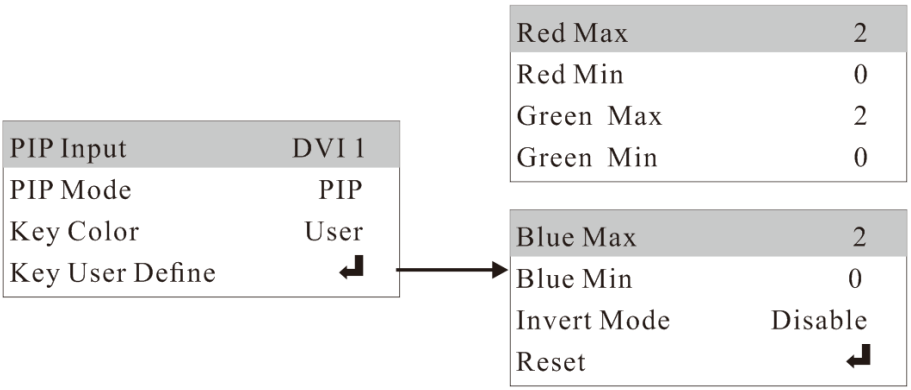


Figure 15-1 PIP submenu

Item	Operation	
PIP Input	◀▶Turn the knob: DVI1/DVI2	
PIP Mode	◀▶Turn the knob: PIP/Key	
Key Color	◀▶Turn the knob: Black, White, Red, Green, Blue, Black Invert, White Invert, Red Invert, Green Invert, Blue Invert, User	
Key User Define	Red Max	◀▶Turn the knob: 0~15
	Red Min	◀▶Turn the knob: 0~15
	Green Max	◀▶Turn the knob: 0~15
	Green Min	◀▶Turn the knob: 0~15
	Blue Max	◀▶Turn the knob: 0~15
	Blue Min	◀▶Turn the knob: 0~15
	Invert Mode	Enable/Disable
	Reset	Press **ENTER** or press the knob to enter the Resetting menu and reset the keying parameters to default values.

Table 15-1 Parameters of the PIP submenu

PIP Setting Shortcut

To set PIP parameters in a convenient way, press and hold **PIP** for one second to enter the PIP shortcut menu. **PIP** is a switch and it will be turned on when the button is lighted up.

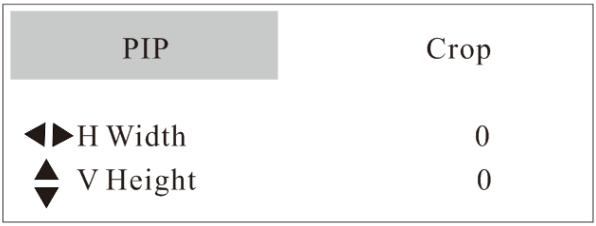


Figure 15-2 PIP shortcut menu

Figure 15-2 shows the PIP shortcut menu. Press **ENTER** to switch between PIP window, crop, window and crop, and input & mode. Turn the knob to change parameter values.

Note: Pressing ENTER + PIP will not reset PIP parameter values.

Advanced Setting

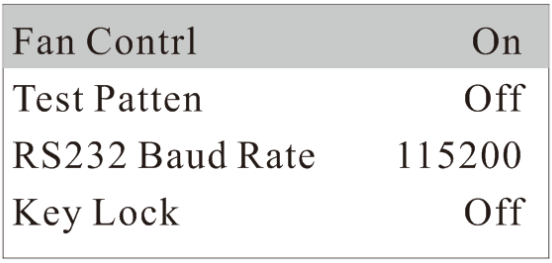


Figure 16-1 Advanced setting submenu

Item	Operation
Fan Control	◄►Turn the knob: On/Off
Test Pattern	◄►Turn the knob: Off/White/Red/Green/Blue
RS232 Baud Rate	◄►Turn the knob: 9600/19200/38400/115200
Key lock	◄►Turn the knob: Off/ On (press and hold **ENTER** for three seconds to unlock the key panel)

Table 16-1 Parameters of the advanced setting submenu

Internal Test

After an LED display is finished, users may want to test the display screen. DVX602 provides different patterns for users to detect defective pixels and blind spots and check LED dot matrix for misalignment. Refer to the following step to adjust the display screen.

Output test patterns: Under the main menu, choose "Advanced setting"→"Test patterns" and turn the knob to change pattern color.

System Information

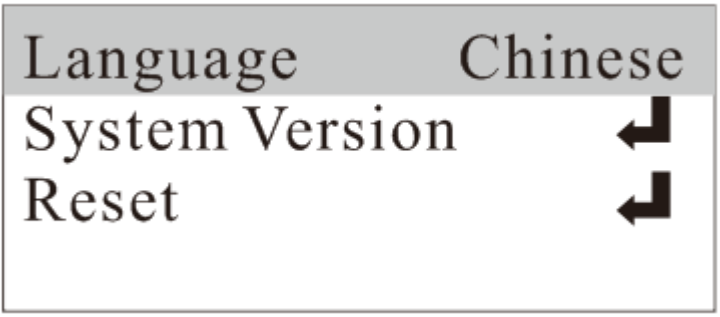


Figure 17-1 System information submenu

Item	Operation
Language	Chinese/English
System Version	Press **ENTER** or turn the knob to view the hardware & software version information
System Reset	Press **ENTER** or turn the knob to reset all system parameters to default values

Table 17-1 Information of the system information submenu

Operation Guide

Splicing Setting

A splicing solution is used if a single video processor cannot drive an ultra-HD LED display. Splicing method is unlimited and can be applied to different LED systems.

Signal Connection

LED units are spliced using one input, that is a channel corresponds to one signal source only (inputs are realized by signal loop or signal distribution). The signal is processed and then output to an LED display. The following takes DVI input as an example to describe the connection method:

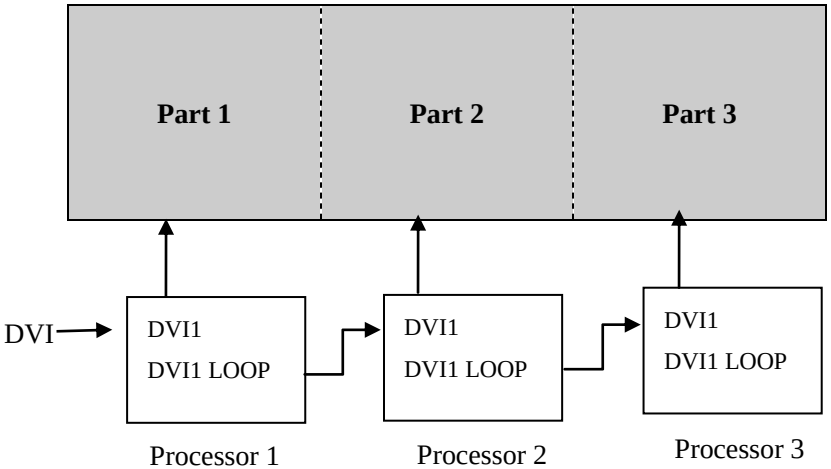


Figure 18-1

Function Setting

DVX602 supports equal splicing and unequal splicing. In **equal splicing**, horizontal pixels and vertical pixels are equal; in **unequal splicing**, pixels of different parts are unequal.

Equal Splicing

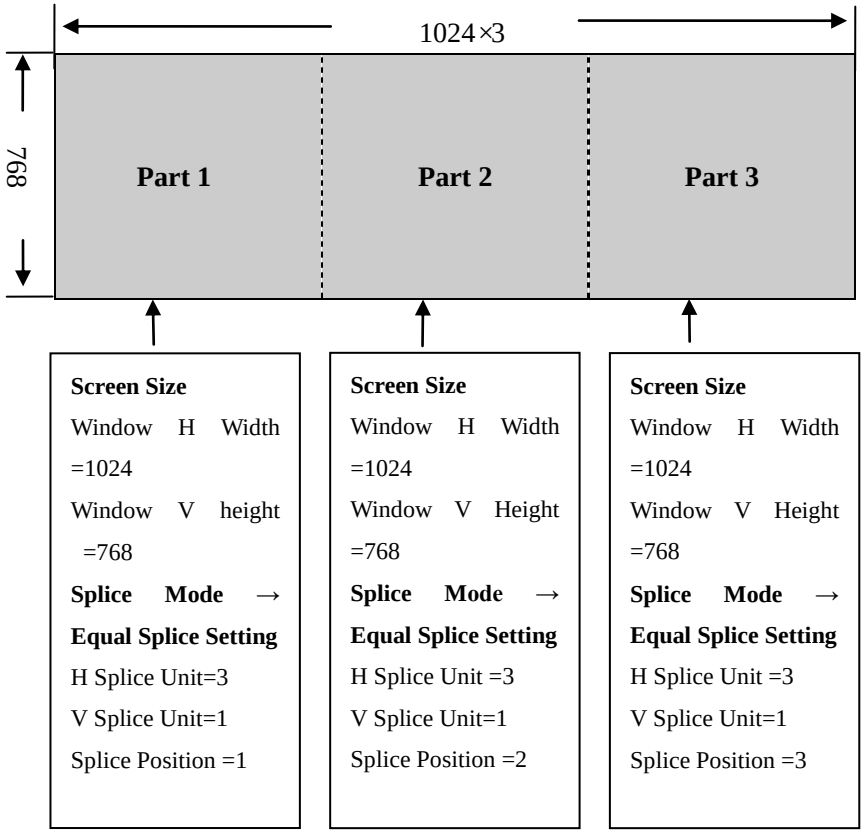


Figure 18-2

As shown in the preceding figure, under main menu, choose "LED"→ "Screen Size" and change " Window H Width" to "1024"; " Window V Height" to "768", "Splice Mode" to "Equal", " H Splice Unit" to "3", "V Splice Unit" to "1", and " Splice Position" to " incremental left to right".

Unequal Splicing

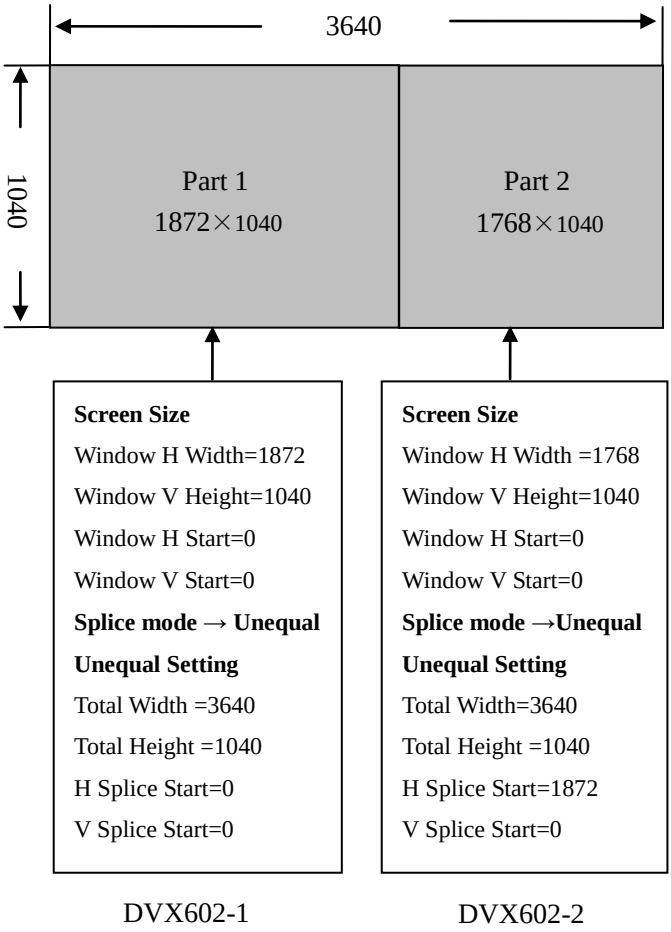


Figure 18-3

As shown in the preceding figure, under main menu, choose "LED" -> "Screen Size" and change DVX602-1 window " Window H Width" to "1872", " Window V Height" to "1040", "window H/V start" to "0", "splice mode" to "Unequal", "H Total Width" to "3640", "V Total Height" to "1040", and "H/V Splice Start" to "0". Change DVX602-2 window "H Width" to "1768", "V Height"

to "1040", "Window H Start" to "0", "Window V Start" to "0", "Splice Mode" to " Unequal", "H Total Width" to "3640", "V Total Height" to "1040", "H splice Start" to "1872", and "V Splice Start" to "0".

PIP Mode Setting

PIP adopts the digital technology to realize concurrent display of two programs, allowing one or more compressed sub-screens to be displayed on the main screen so that you can monitor channels while watching the main screen.

PIP Parameter Setting

Press PIP (this switch is turned on when the PIP button is lighted up), enter "Window & Crop", and change "Output Channel" to "PIP", "Window Adjust" to "Enable", " Window H Start" to "364", " Window V Start" to "250", " Window H Width" to "480", and " Window V Height" to "320". The following figure shows the adjustment result.

Input	DVI1
H Start	364
V Start	250
H Width	480
V Height	320

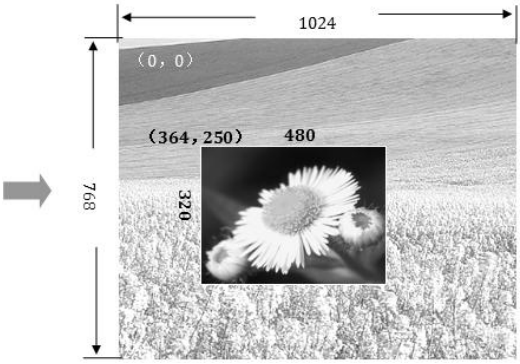


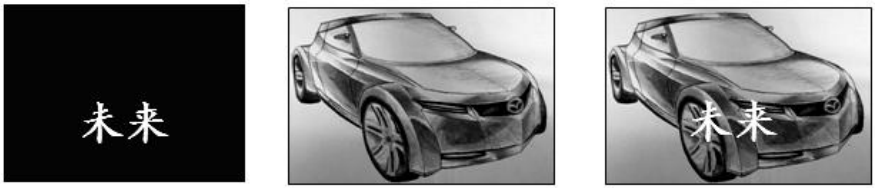
Figure 18-4

Note: Only DVI1 and DVI2 supports PIP output.

Keying Mode

Keying is an extended function of PIP. This is realized by subtracting specified color from image color input through a PIP channel. Keying is used to produce simple special effect and add subtitles.

Adding Subtitle



PIP channel + Main screen channel = Subtitle

Figure 18-5

Under the main menu, choose "PIP" and change " PIP Mode" to "Key" and " Key Color" to "Black" (by default, this parameter is set to " Black ").

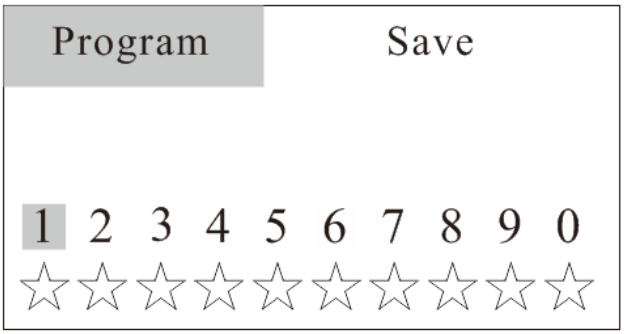
According to the preceding figure, enter white words on the black background through a PIP channel and overlap the screen with the main screen to get the subtitle effect.

Description of keying color:

Black: keying black
White: keying white
Red: keying red
Green: keying green
Blue: keying blue
Black inversion: reserving black
White inversion: reserving white
Red inversion: reserving red
Green inversion: reserving green
Blue inversion: reserving blue

Presetting Scenarios

Preset modes are various application scenarios that users can invoke to use without repeatedly setting the scenarios. This function helps improve working efficiency. A preset scenario must be configured with channel mode, image quality image, capture, window and PIP associated parameters. The following will describe how to save and invoke a preset scenario:



Press **PRESET** to enter the preset mode menu. As shown in the preceding figure, press **PGM** to switch between preview outputs and program outputs and press **ENTER** to switch scenarios.

Saving a Scenario

After a scenario is set, press **ENTER** to switch to saving mode and press a number key (0~9) to save the scenario as a number. In this case, ☆ is changed to ★.

Invoking and Erasing a Scenario

Under the preset mode menu, press **ENTER** to switch to invocation/erasing mode. If there are scenarios available, The symbol which is corresponding to numbers is ★. Press these numbers to recall or erase the scenarios.

Note: If there are preset scenarios available, changing resolutions of preview outputs or program outputs will cause all the scenarios to be cleared.

Specifications

Video Input			
Interface	Qty	Connector	Specifications
DVI	2	DVI-I	DVI1.0, in compliance with VESA standard, PC to 1920×1080
VGA	2	DB15	In compliance with VESA standard, PC to 1920×1080
VID	2	BNC	PAL/NTSC/SECAM 1Vpp±3DB(0.7V Video+0.3V Sync) 75 ohm
HDMI	1	HDMI	DVI1.0,HDMI1.3 downward compatible PC to 1920×1080,HD to 1080p
SDI (optional)	2	BNC	1080p 60/50/30/25/24
			1080i 60/50
			720p 60/50
			625i
			525i

Preview output			
Qty	1 VGA channel and 2DVI channels		
Connector	DVI-I		
Standard	VESA		
Resolution	640x480@60Hz	800x600@60Hz	1024x768@60Hz
	1280x1024@60Hz	1366x768@60Hz	1440x900@60Hz
	1600x1200@60Hz	1680x1050@60Hz	1920x1080@60Hz
	1920x1200@60Hz	2048x1152@60Hz	1920x1080@50Hz
	1280x720@50Hz		

<table>
<tr><th colspan="6">Program output (optional)</th></tr>
<tr><td>Output</td><td>DVI</td><td colspan="2">VGA</td><td>SDI</td><td>VID</td></tr>
<tr><td>Connector</td><td>DVI-I</td><td colspan="2">DB15</td><td>BNC</td><td>BNC</td></tr>
<tr><td>Qty</td><td>1</td><td colspan="2">1</td><td>1</td><td>1</td></tr>
<tr><td rowspan="10">Resolution</td><td rowspan="5">VGA/DVI</td><td colspan="2">640x480@60Hz</td><td colspan="2">800x600@60Hz</td></tr>
<tr><td colspan="2">1024x768@60Hz</td><td colspan="2">1280x1024@60Hz</td></tr>
<tr><td colspan="2">1366x768@60Hz</td><td colspan="2">1440x900@60Hz</td></tr>
<tr><td colspan="2">1600x1200@60Hz</td><td colspan="2">1680x1050@60Hz</td></tr>
<tr><td colspan="2">1920x1080@60Hz</td><td colspan="2">1920x1200RB@60Hz</td></tr>
<tr><td rowspan="4">SDI/DVI</td><td colspan="4">1080p 60/59.94/50/30/29.97/25/24/23.98</td></tr>
<tr><td colspan="4">1080i 60/59.94/50</td></tr>
<tr><td colspan="4">720p 60/59.94/50</td></tr>
<tr><td colspan="4">625i</td></tr>
<tr><td>VID</td><td colspan="2">PAL</td><td colspan="2">NTSC</td></tr>
<tr><td colspan="6">525i</td></tr>
<tr><th colspan="6">LED output</th></tr>
<tr><td>Qty</td><td colspan="5">1 VGA channel and 2 DVI channels</td></tr>
<tr><td>Connector</td><td colspan="5">DVI-I</td></tr>
<tr><td>Standard</td><td colspan="5">VESA</td></tr>
<tr><td rowspan="7">Resolution</td><td>640x480@60Hz</td><td>800x600@60Hz</td><td colspan="3">1024x768@60Hz</td></tr>
<tr><td>1280x1024@60Hz</td><td>1366x768@60Hz</td><td colspan="3">1440x900@60Hz</td></tr>
<tr><td>1600x1200@60Hz</td><td>1680x1050@60Hz</td><td colspan="3">1920x1080@60Hz</td></tr>
<tr><td>1920x1200@60Hz</td><td>2048x1152@60Hz</td><td colspan="3">2560x960@60Hz</td></tr>
<tr><td>1920x1080@50Hz</td><td>1280x720@50Hz</td><td colspan="3">2304x1152@60Hz</td></tr>
<tr><td>1920x1280@60Hz</td><td>1536x1536@60Hz</td><td colspan="3">1280x1920@60Hz</td></tr>
<tr><td>User Define</td><td></td><td colspan="3"></td></tr>
<tr><th colspan="6">General parameters</th></tr>
<tr><td colspan="2">Weight</td><td colspan="4">Dimensions</td></tr>
<tr><td colspan="2">4.7Kg</td><td colspan="4">6.5cm(H)×44cm(W)×32cm(L)</td></tr>
<tr><td colspan="2">Power supply</td><td>Max. power</td><td colspan="3">Working temperature</td></tr>
<tr><td colspan="2">100VAV-240VAC 50/60Hz</td><td>40W</td><td colspan="3">0℃~45℃</td></tr>
</table>

Trouble Shooting

Problems may be encountered during installation or use. Here, the user can follow the steps below to remove the troubles; if the steps below still cannot fix the problems for you, please contact the local dealer.

1. The equipment has no image and the indicator light doesn't work.

Check whether the power supply is connected well and the power switch is turned on.

2. LCD screen on the key panel has data displayed, but no image output.

Check whether the signal is connected correctly.

Check whether the equipment supports the resolution and refresh the frequency.

Reset the equipment to factory default settings.

3. VGA picture cannot be displayed on the full screen or is deflected.

Check whether VGA wire is up to standard or overlong.

Open the menu: System →VGA settings→ Automatic adjustment; and hit VGA automatic adjustment.

Adjust the picture manually in VGA settings.

4. HDMI/DVI output picture cannot be displayed on the full screen.

Reset output resolution of the equipment.

Check whether output resolution of PC or notebook is identical to the resolution received by the splicer.

Check whether desktop wallpaper is too small.

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